

## CLAIM SHEET

1. (Original) A device for supplying a signal delayed by a predetermined period, the device comprising:

- an input terminal for receiving an input main signal;
- an output terminal at which a delayed output signal is generated;
- a vernier that provides variable delays for a main signal;
- a sensor incorporated into said vernier for sensing for vernier's temperature;
- a feedback loop for maintaining the temperature of the vernier at a constant level.

2. (Original) The device according to claim 1, wherein the sensor is incorporated into the vernier's silicon die.

3. (Original) The device according to claim 1, wherein the feedback loop comprises an integrator for providing on his output integrated difference of the temperature sensor output and reference voltage.

4. (Original) The device according to claim 1, wherein the feedback loop comprises a heater/cooler for maintaining the temperature of vernier.

5. (Original) The device according to claim 4, wherein the cooler/heater is implemented in Peltier effect reversable heat pump.

6. (Currently amended) The device according to claim 4, wherein the vernier has a package, and the cooler/heater has a low temperature resistance contact with the vernier's package.

7. **(Canceled)**

8. **(Currently amended)** A method for supplying a signal delayed by a predetermined period, the method comprising the steps of:

receiving an input main signal;

providing a vernier for generating variable delays for the main signal, said vernier having a package;

generating an output signal after a predetermined delay period;  
sensing for vernier's temperature to maintain it at a constant level,  
~~according to claim 7, wherein the temperature is maintained by using a heater/cool~~er having a  
low temperature resistance contact with the vernier's package.

**9. (Currently amended)** A method for supplying a signal delayed by a  
predetermined period, the method comprising the steps of:  
receiving an input main signal;  
providing a vernier for generating variable delays for the main signal;  
generating an output signal after a predetermined delay period;  
sensing for vernier's temperature to maintain it at a constant level.  
~~according to claim 7, wherein the temperature is maintained as close to the ambient temperature~~  
as possible so as to reduce extra heating of the temperature stabilizing circuitry.